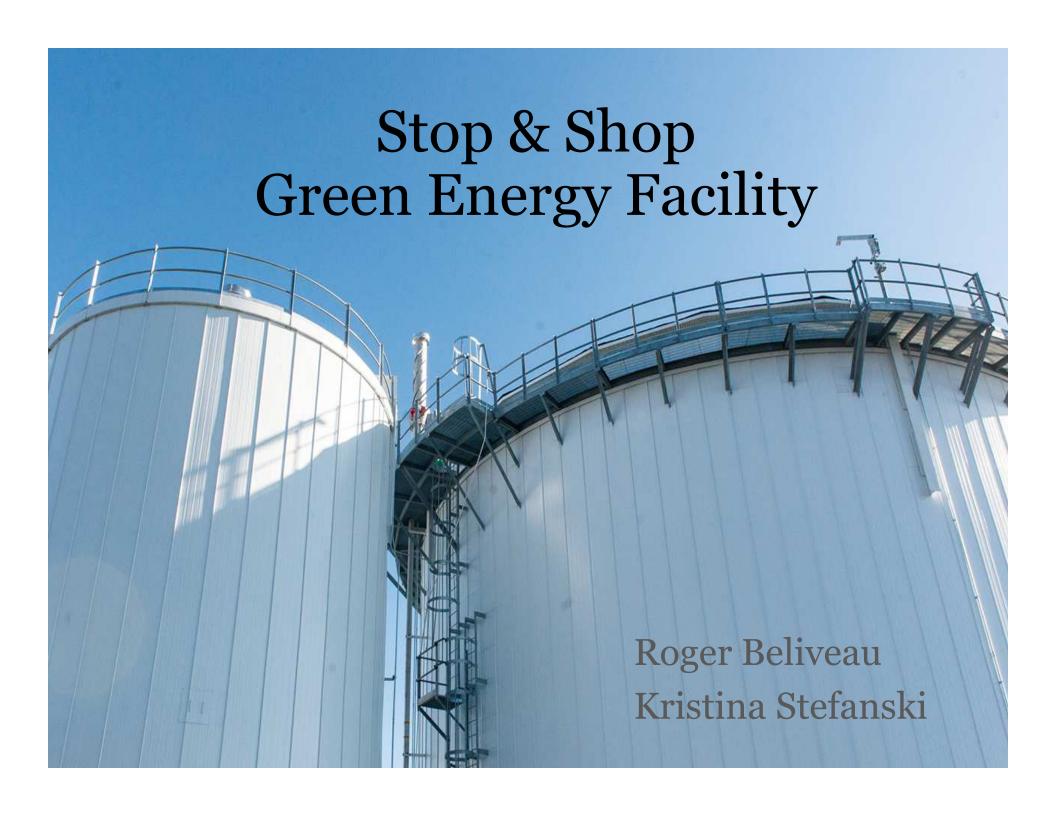


Presented by: Roger Beliveau Kristina Stefanski



# Stop & Shop's Anaerobic Digestion Facility

- The Stop & Shop Supermarket Co.'s new green energy facility in Freetown, Mass., opened Friday, April 15, will convert inedible food from all 212 of the Ahold USA banner's New England stores into energy that will help power the company's distribution center in Freetown.
- The state-of-the-art facility is expected to process an average of 95 tons of inedible food daily, an estimated 34,000 tons per year. Inedible food products from all of the New England stores that can't be sold or donated to area food banks or local farms will go to the facility and turned into energy via anaerobic digestion. Stop & Shop New England is based in Quincy, Mass.
- The energy produced by the 12,000-square-foot facility will provide as much as 40 percent of the 1.1 million-square-foot DC's energy needs, enough power to run the facility for four months. Once fully up and running, the facility will create about 1.25 megawatts of clean electricity.

### **Project Time-Line**

Q4 2012

- Initial conversation with Divert Inc. at FMI Sustainability Summit
- Internal business conversations surrounding the idea of possibly building our own anaerobic digester

Feb 2013  Began financial analysis for possible business case, ROI, continued internal discussions

**July 2014** 

Presented project proposal to Executive Board

Q4 2014 Project approved

April 2015

 Ground breaking in Freetown, MA, adjacent to Stop & Shop Distribution Facility

Feb 2016 • Began initial feeding of digester, and sequential roll-out to stores

April 2016

Facility ribbon cutting

## Collection Process

- Stores collect organic materials (can retain retail packaging) and place into collection bin
  - Cleaner, more sanitary process
  - Organic materials removed from facility within 48hours
  - Does not impact current donation programs
- Once bins are full, use reverse logistics process through backhauls back to Freetown
- Bins delivered on trailers to facility at DC
  - Material maintained under refrigeration as much as possible through the system back to facility
- Once delivered, organic materials processed within 24 hours





## GREEN ENERGY FACILITY TURNING INEDIBLE FOOD INTO CLEAN ENERGY



#### **ELECTRICAL POWER**

The power created by the Green Energy Facility provides up to 40% of electricity for Stop & Shop's 1.1 million square-foot distribution center



#### **INEDIBLE FOOD**

Each day, approximately 95 tone of another food will be collected from Stop & Shop New England shares and brought to the Green Energy Facility

#### BIOGAS

likogas in captured and is sent to a generator where electrical power is created



#### **ANAEROBIC DIGESTION**

InerSide local is landed into the facility and goes through a process called Americkic Digestion



Leftwer organic material is turned into fertilizer and compact

FOR ADDITIONAL INFORMATION ON STOP & SHOP'S ENVIRONMENTAL INITIATIVES. please visit stopandshop.com/environment













## Questions??